



Senior Design Project

Under Water Rescue Drone

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Faculty Advisor

Dr. K. M. A. Salam
Professor

Department of Electrical and Computer Engineering

Fall, 2020

DECLARATION

This is to certify that this Project is our original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree. Any material reproduced in this project has been properly acknowledged.

Students' name & Signature

1. **Md Al Shakline khan**

2. **Fahmida Alam Usha**

3. **Mohammad Momin**

4. **Mahmudur Rashid Remon**

APPROVAL

The capstone project entitled “**Under Water Drone**” by **Md Al Shakline khan (ID - 1712095043)**, **Fahmida Alam Usha (ID -1721645643)**, **Mohammad Momin (ID-1711370645)** and **Mahmudur Rashid Remon (ID- 1711224043)** is approved in partial fulfillment of the requirement of the Degree of Bachelor of Science in Electrical and Electronic Engineering/Electronics and Telecommunication Engineering and has been accepted as satisfactory.

Supervisor’s Signature

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ACKNOWLEDGMENT

First of all, we wish to express our gratitude to the Almighty for giving us the strength to perform our responsibilities and complete the report.

The underwater drone project program is very helpful to bridge the gap between the theoretical knowledge and real-life experience as part of Bachelor of Science (BSc) program. This report has been designed in such a way so that we can have a practical experience through the theoretical understanding.

It is imperative to show our appreciation for our honorable faculty member Dr. K. M. A. Salam for his undivided attention and help to achieve this milestone. Also, our gratefulness is divine to the North South University, ECE department for providing us a course such as EEE 499 in which we could really work on this project and materialize it the way we have dreamt of.

We thank our friends and family for their moral support to carve out this project and always offer their support.

ABSTRACT

Remotely operated underwater vehicles (ROVs) are remote control underwater robots driven by an individual on the surface. These robots are tethered by a series of wires that send signals between the operator and the ROV. All ROVs are equipped with a video camera, propulsion system, and lights. Other equipment is added depending on the specifications required. These include a manipulator arm, water sampler, instruments that measure clarity, light penetration, temperature, and depth. Team Dubori was determined to recreate such an ROV in order to fulfill a specific mission. By using the system an organization such as in military purpose to explode the mine under the water and also to take real time data of river, and also very helpful for rescued team to identify the position of boats after any accident. The system has been designed in such a manner that takes care of all the needs of a typical rescued team and it is capable of providing easy and correct information of the things under water.